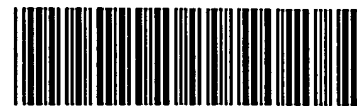


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/538,723  
Source: PCT  
Date Processed by STIC: 06-22-2005

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PCT

## RAW SEQUENCE LISTING

DATE: 06/22/2005

PATENT APPLICATION: US/10/538,723

TIME: 10:24:33

Input Set : A:\P03185US0.txt

Output Set: N:\CRF4\06222005\J538723.raw

3 <110> APPLICANT: Morgan, Richard George  
 4     Pettengell, Ruth  
 5     Forraz, Nicolas Pierre  
 6     Mcguckin, Colin  
 8 <120> TITLE OF INVENTION: Peptides Impairing PBX Dependent Gene Regulation  
 10 <130> FILE REFERENCE: HO-P03185US0  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/538,723  
 13 <141> CURRENT FILING DATE: 2005-06-13  
 15 <150> PRIOR APPLICATION NUMBER: PCT/GB2003/005425  
 16 <151> PRIOR FILING DATE: 2003-12-12  
 18 <150> PRIOR APPLICATION NUMBER: GB0229151.6  
 19 <151> PRIOR FILING DATE: 2002-12-13  
 21 <160> NUMBER OF SEQ ID NOS: 119  
 23 <170> SOFTWARE: PatentIn version 3.3  
 25 <210> SEQ ID NO: 1  
 26 <211> LENGTH: 11  
 27 <212> TYPE: PRT  
 28 <213> ORGANISM: Artificial Sequence  
 30 <220> FEATURE:  
 31 <223> OTHER INFORMATION: Peptide mimic of HOX Heptapeptide Region  
 34 <220> FEATURE:  
 35 <221> NAME/KEY: MISC\_FEATURE  
 36 <222> LOCATION: (1)..(1)  
 37 <223> OTHER INFORMATION: Xaa may be present or absent, is a moiety attached via the  
 38     available amino group or alternatively via the side chain of the  
 39     adjacent amino acid residue, is preferably a peptide of 50 amino  
 40     acids or less which is optionall substituted.  
 42 <220> FEATURE:  
 43 <221> NAME/KEY: MISC\_FEATURE  
 44 <222> LOCATION: (2)..(2)  
 45 <223> OTHER INFORMATION: Xaa may be present or absent, is one or more amino acids, and  
 is     preferably W, T, PE, KQI, VV, PQT, H or RI.  
 48 <220> FEATURE:  
 49 <221> NAME/KEY: MISC\_FEATURE  
 50 <222> LOCATION: (3)..(3)  
 51 <223> OTHER INFORMATION: Xaa is an amino acids with an aromatic side chain, preferably  
 Y,     F or W.  
 54 <220> FEATURE:  
 55 <221> NAME/KEY: MISC\_FEATURE  
 56 <222> LOCATION: (4)..(4)  
 57 <223> OTHER INFORMATION: Xaa is the amino acid P or D.  
 59 <220> FEATURE:

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60 <221> NAME/KEY: MISC\_FEATURE

## RAW SEQUENCE LISTING

DATE: 06/22/2005

PATENT APPLICATION: US/10/538,723

TIME: 10:24:33

Input Set : A:\P03185US0.txt

Output Set: N:\CRF4\06222005\J538723.raw

61 <222> LOCATION: (7)..(7)

62 <223> OTHER INFORMATION: Xaa is an amino acid with a basic side chain, preferably K, R  
or

63 H.

65 <220> FEATURE:

66 <221> NAME/KEY: MISC\_FEATURE

67 <222> LOCATION: (8)..(8)

68 <223> OTHER INFORMATION: Xaa is an amino acid with a charged side chain, preferably a  
69 basic side chain, especially preferably K, R, E, H, D, N or Q.

71 <220> FEATURE:

72 <221> NAME/KEY: MISC\_FEATURE

73 <222> LOCATION: (9)..(9)

74 <223> OTHER INFORMATION: Xaa is an amino acid with a charged side chain, preferably a  
75 basic side chain, especially preferably K, R, E, H, D, N or Q.

77 <220> FEATURE:

78 <221> NAME/KEY: MISC\_FEATURE

79 <222> LOCATION: (10)..(10)

80 <223> OTHER INFORMATION: Xaa is an amino acid with a basic side chain or serine,  
81 especially preferably H, S, R, or K or a functionally equivalent  
82 derivative, variant or fragment thereof.

84 <220> FEATURE:

85 <221> NAME/KEY: MISC\_FEATURE

86 <222> LOCATION: (11)..(11)

87 <223> OTHER INFORMATION: Xaa may be present or absent, is a moiety attached via the  
88 available carboxyl group or alternatively via the side chain of  
89 the adjacent amino acid residue, is preferably a peptide of 50  
90 amino acids or less which is optionally substituted.

92 <400> SEQUENCE: 1

W--> 94 Xaa Xaa Xaa Xaa Trp Met Xaa Xaa Xaa Xaa Xaa

95 1 5 10

98 <210> SEQ ID NO: 2

99 <211> LENGTH: 9

100 <212> TYPE: PRT

101 <213> ORGANISM: Artificial Sequence

103 <220> FEATURE:

104 <223> OTHER INFORMATION: Peptide mimic of HOX heptapeptide region

107 <220> FEATURE:

108 <221> NAME/KEY: MISC\_FEATURE

109 <222> LOCATION: (1)..(1)

110 <223> OTHER INFORMATION: Xaa may be present or absent, is one or more amino acids,  
and is

111 preferably W, T, PE, KQI, VV, PQT, H or RI.

113 <220> FEATURE:

114 <221> NAME/KEY: MISC\_FEATURE

115 <222> LOCATION: (2)..(2)

116 <223> OTHER INFORMATION: Xaa is an amino acid with an aromatic side chain, preferably  
Y, F

117 or W.

119 <220> FEATURE:

120 <221> NAME/KEY: MISC\_FEATURE

121 <222> LOCATION: (3)..(3)

122 <223> OTHER INFORMATION: Xaa is the amino acid P or D

## RAW SEQUENCE LISTING

DATE: 06/22/2005

PATENT APPLICATION: US/10/538,723

TIME: 10:24:33

Input Set : A:\P03185US0.txt

Output Set: N:\CRF4\06222005\J538723.raw

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 125 <221> NAME/KEY: MISC\_FEATURE  
 126 <222> LOCATION: (6)..(6)  
 127 <223> OTHER INFORMATION: Xaa is an amino acid with a basic side chain, preferably K,  
 R or  
 128 H.  
 130 <220> FEATURE:  
 131 <221> NAME/KEY: MISC\_FEATURE  
 132 <222> LOCATION: (7)..(7)  
 133 <223> OTHER INFORMATION: Xaa is an amino acid with a charged side chain, preferably a  
 134 basic side chain, especially preferably K, R, E, H, D, N, or Q.  
 136 <220> FEATURE:  
 137 <221> NAME/KEY: MISC\_FEATURE  
 138 <222> LOCATION: (8)..(8)  
 139 <223> OTHER INFORMATION: Xaa is an amino acid with a charged side chain, preferably a  
 140 basic side chain, especially preferably K, R, E, H, D, N, or Q.  
 142 <220> FEATURE:  
 143 <221> NAME/KEY: MISC\_FEATURE  
 144 <222> LOCATION: (9)..(9)  
 145 <223> OTHER INFORMATION: Xaa is an amino acid with a basic side chain or serine,  
 146 especially preferably H, S, R or K.  
 148 <400> SEQUENCE: 2  
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 151 1 5  
 154 <210> SEQ ID NO: 3  
 155 <211> LENGTH: 11  
 156 <212> TYPE: PRT  
 157 <213> ORGANISM: Artificial Sequence  
 159 <220> FEATURE:  
 160 <223> OTHER INFORMATION: Peptide mimic of HOX heptapeptide region.  
 163 <220> FEATURE:  
 164 <221> NAME/KEY: MISC\_FEATURE  
 165 <222> LOCATION: (1)..(1)  
 166 <223> OTHER INFORMATION: Xaa may be present or absent, is a moiety attached via the  
 167 available amino group or alternatively via the side chain of the  
 168 adjacent amino acid residue, is preferably a peptide of 50 amino  
 169 acids or less which is optionally substitute  
 171 <220> FEATURE:  
 172 <221> NAME/KEY: MISC\_FEATURE  
 173 <222> LOCATION: (2)..(2)  
 174 <223> OTHER INFORMATION: Xaa may be present or absent, is one or more amino acids,  
 and is  
 175 preferably W, T, PE, KQI, VV, PQT, H or RI.  
 177 <220> FEATURE:  
 178 <221> NAME/KEY: MISC\_FEATURE  
 179 <222> LOCATION: (3)..(3)  
 180 <223> OTHER INFORMATION: Xaa is the amino acid Y or F.  
 182 <220> FEATURE:  
 183 <221> NAME/KEY: MISC\_FEATURE  
 184 <222> LOCATION: (4)..(4)  
 185 <223> OTHER INFORMATION: Xaa is the amino acid P or D.

## RAW SEQUENCE LISTING

DATE: 06/22/2005

PATENT APPLICATION: US/10/538,723

TIME: 10:24:33

Input Set : A:\P03185US0.txt

Output Set: N:\CRF4\06222005\J538723.raw

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188 <221> NAME/KEY: MISC_FEATURE
189 <222> LOCATION: (7)..(7)
190 <223> OTHER INFORMATION: Xaa is the amino acid K or R
192 <220> FEATURE:
193 <221> NAME/KEY: MISC_FEATURE
194 <222> LOCATION: (8)..(8)
195 <223> OTHER INFORMATION: Xaa is the amino acid K, R or E.
197 <220> FEATURE:
198 <221> NAME/KEY: MISC_FEATURE
199 <222> LOCATION: (9)..(9)
200 <223> OTHER INFORMATION: Xaa is the amino acid H, R, Q or K.
202 <220> FEATURE:
203 <221> NAME/KEY: MISC_FEATURE
204 <222> LOCATION: (10)..(10)
205 <223> OTHER INFORMATION: Xaa is the amino acid H, S, R or K.
207 <220> FEATURE:
208 <221> NAME/KEY: MISC_FEATURE
209 <222> LOCATION: (11)..(11)
210 <223> OTHER INFORMATION: Xaa may be present or absent, is a moiety attached via the
211     available carboxyl group or alternatively via the side chain of
212     the adjacent amino acid residue, is preferably a peptide of 50
213     amino acids or less which is optionally substit
215 <400> SEQUENCE: 3
W--> 217 Xaa Xaa Xaa Xaa Trp Met Xaa Xaa Xaa Xaa Xaa
218 1           5           10
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222 <211> LENGTH: 11
223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Peptide mimic of HOX heptapeptide region
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231 <221> NAME/KEY: MISC_FEATURE
232 <222> LOCATION: (1)..(1)
233 <223> OTHER INFORMATION: Xaa may be present or absent, is a moiety attached via the
234     available amino group or alternatively via the side chain of the
235     adjacent amino acid residue, is preferably a peptide of 50 amino
236     acids or less which is optionally substitute
238 <220> FEATURE:
239 <221> NAME/KEY: MISC_FEATURE
240 <222> LOCATION: (2)..(2)
241 <223> OTHER INFORMATION: Xaa may be present or absent, is one or more amino acids,
and is
242     preferably W, T, PE, KQI, VV, PQT, H or RI.
244 <220> FEATURE:
245 <221> NAME/KEY: MISC_FEATURE
246 <222> LOCATION: (7)..(7)
247 <223> OTHER INFORMATION: Xaa is the amino acid K or R.
249 <220> FEATURE:

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## RAW SEQUENCE LISTING

DATE: 06/22/2005

PATENT APPLICATION: US/10/538,723

TIME: 10:24:33

Input Set : A:\P03185US0.txt

Output Set: N:\CRF4\06222005\J538723.raw

250 <221> NAME/KEY: MISC\_FEATURE  
 251 <222> LOCATION: (8)..(8)  
 252 <223> OTHER INFORMATION: Xaa is the amino acid K, R or E.  
 254 <220> FEATURE:  
 255 <221> NAME/KEY: MISC\_FEATURE  
 256 <222> LOCATION: (9)..(9)  
 257 <223> OTHER INFORMATION: Xaa is the amino acid H, R, Q or K.  
 259 <220> FEATURE:  
 260 <221> NAME/KEY: MISC\_FEATURE  
 261 <222> LOCATION: (10)..(10)  
 262 <223> OTHER INFORMATION: Xaa is the amino acid H, S, R or K.  
 264 <220> FEATURE:  
 265 <221> NAME/KEY: MISC\_FEATURE  
 266 <222> LOCATION: (11)..(11)  
 267 <223> OTHER INFORMATION: Xaa may be present or absent, is a moiety attached via the  
 268 available carboxyl group or alternatively via the side chain of  
 269 the adjacent amino acid residue, is preferably a peptide of 50  
 270 amino acids or less which is optionally substituted.  
 272 <400> SEQUENCE: 4  
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 289 <222> LOCATION: (1)..(1)  
 290 <223> OTHER INFORMATION: Xaa may be present or absent, is a moiety attached via the  
 291 available amino group or alternatively via the side chain of the  
 292 adjacent amino acid residue, is preferably a peptide of 50 amino  
 293 acids or less which is optionally substitute  
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 296 <221> NAME/KEY: MISC\_FEATURE  
 297 <222> LOCATION: (11)..(11)  
 298 <223> OTHER INFORMATION: Xaa may be present or absent, is a moiety attached via the  
 299 available carboxyl group or alternatively via the side chain of  
 300 the adjacent amino acid residue, is preferably a peptide of 50  
 301 amino acids or less which is optionally substit  
 303 <400> SEQUENCE: 5  
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 306 1 5 10  
 309 <210> SEQ ID NO: 6  
 310 <211> LENGTH: 9  
 311 <212> TYPE: PRT  
 312 <213> ORGANISM: Artificial Sequence  
 314 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/538,723

DATE: 06/22/2005  
TIME: 10:24:34

Input Set : A:\P03185US0.txt  
Output Set: N:\CRF4\06222005\J538723.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3,4,7,8,9,10,11  
Seq#:2; Xaa Pos. 1,2,3,6,7,8,9  
Seq#:3; Xaa Pos. 1,2,3,4,7,8,9,10,11  
Seq#:4; Xaa Pos. 1,2,7,8,9,10,11  
Seq#:5; Xaa Pos. 1,11  
Seq#:8; Xaa Pos. 1  
Seq#:9; Xaa Pos. 1,3,4,5,10,11,13,15,16



## VERIFICATION SUMMARY

DATE: 06/22/2005

PATENT APPLICATION: US/10/538,723

TIME: 10:24:34

Input Set : A:\P03185US0.txt

Output Set: N:\CRF4\06222005\J538723.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number

L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0

L:150 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0

L:217 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0

L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0

L:305 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

L:354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0

L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0